



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

82415-10

Date of Issuance:

11/20/2014

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Bactekiller BM-103NA

Name and Address of Registrant (include ZIP Code):

Fuji Chemical Industries, Ltd.
c/o Technology Sciences Group, Inc.
1150 18th ST, NW, Suite 1000
Washington, DC 20036

Fuji Chemical Industries, Ltd.
Alte Building Higohashi
15-27, Edobori 1-Chome, Nishi-Ku
Osaka, 550-0002 Japan

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on her/his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Seiichi Murasaki, Acting Product Manager 33

Date:

11/20/2014

2. You are required to comply with the DCI identified below:

- a. Silver GDCI-072501-1129, issued on 02/29/2012

You must comply with all the data requirements within the deadlines established by the DCI. If you have questions about the Generic DCIs listed above, you may contact the Team Leader for PM 36: http://www.epa.gov/oppad001/contacts_ad.htm.

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 82415-10"

4. Submit one copy of the final printed label for the record before you release the product for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 06/27/14

If you have any questions, please contact Karen Leavy at (703) 308-6237 or Leavy.Karen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "SEIICHI MURASAKI". The signature is stylized and cursive.

Seiichi Murasaki
Acting Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

BACTEKILLER BM-103NA

Silver-Glass

BACTEKILLER BM-103NA is an antimicrobial powder for commercial and industrial use designed to be incorporated into various materials during varying stages of the manufacturing process to preserve the integrity of the manufactured materials.

BACTEKILLER BM-103NA is a preservative for use in the manufacture of plastic films, interior and exterior paint, paper coatings, adhesives, and synthetic fibers.

For more details of the various materials, refer to the supplemental labeling for uses of **BACTEKILLER BM-103NA**.

ACTIVE INGREDIENT:

Silver* as elemental: 1.6%

OTHER INGREDIENTS: 98.4%

TOTAL 100.0%

*from silver-magnesium-aluminum phosphate complex

ACCEPTED

11/20/2014

Under the Federal Insecticide, Fungicide,
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 82415-10

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on this product, call the poison control center at 1-800-222-1222.	

Manufactured by:
Fuji Chemical Industries, Ltd.
Alte Building Higobashi
15-27, Edobori 1-Chome, Nishi-Ku
Osaka, 550-0002 Japan

EPA Reg. No. 82415-
EPA Est. No. 82415-JPN-001

Net Contents:

PRECAUTIONARY STATEMENTS HAZARD TO

HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contamination of cooking utensils and food preparation surfaces.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES permit) and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Do not store in areas accessible to children. Do not store in places where food or feed may come in contact with the product. Keep away from direct sunlight or humidity. In case of spill, collect material and dispose of it as specified below. **PESTICIDE DISPOSAL:** Unused materials should be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Non refillable container. Do not reuse or refill this container. Empty bag completely and dispose in regular trash collection. Offer cardboard container for recycling if available or dispose in regular trash collection.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

BLENDING AND FORMULATING INSTRUCTIONS FOR THE LISTED MATERIALS BACTEKILLER BM-

103NA is a silver glass antimicrobial powder designed to be incorporated into various materials at various stages of their manufacturing process to preserve the integrity of the manufactured materials. The powder can be incorporated into the materials as an integral part of the finished products throughout their entire thickness, or as a film over the surfaces of the manufactured materials, depending on the particular method of manufacture of the finished materials and needs of the manufacturer.

BACTEKILLER BM-103NA may be incorporated into the following materials at the specified Maximum Concentration (MC) on a dry weight basis of finished products, or on a weight by weight basis for liquid products such as paints.

	APPLICATION	MC
Plastic and Films	non food contact applications* in polyethylene, polypropylene, polyvinyl chloride, polyacetate, and polyester	6.0%
Paint	water based and solvent based interior and exterior	5.0%
Paper coating	non food packaging paper*, not for paper production use	1.5%
Adhesive	non food contact applications* including plywood adhesives	2.0%
Fibers	Polyester, Nylon, Polypropylene, Acrylic and Rayon	2.0%
Textile Finishing		0.75%
Coatings including water-borne, solvent-borne, liquid powder and 100% solids coatings for interior and exterior uses.	non food packaging paper products*, natural and synthetic fibers and fabrics, metals, plastics, laminates, composite and building materials, barrier fabrics, furniture, automotive and vehicular parts, glazing materials and HVAC systems	5.0%

**See Supplemental Labeling for food contact applications*

For details in blending BACTEKILLER BM-103NA with these materials, refer to supplemental labeling.

(Supplemental Labeling)

BACTEKILLER BM-103NA **Silver-Glass**

Claims: BACTEKILLER BM-103NA is to be incorporated into the following materials at suitable stages of the manufacturing process to preserve the integrity of the manufactured/treated materials, and thus make them suppress the growth of bacteria and mold.

Plastics and films	<p>Use: non food contact plastics and films</p> <p>Polymers: polyester, polyamide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, epoxy resin, phenol resin, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic resin, methyl methacrylate, acrylonitrile butadiene styrene copolymer, etc.</p> <p>Products: computers, laptops, and accessories (stationary, mobile and handheld) including processors (CPUs), monitors, stands, and peripherals to include keyboards, mouse, touch pad, touch tablet, graphic tablet, and trackballs and other input/output devices; electronics and gaming equipment (stationary, portable, mobile, and handheld) and displays and their accessories, including consoles, headsets, controllers and other input/output devices; communication equipment (stationary, mobile, and handheld) including telephones, headsets, handsets, intercoms, earphones, and microphones and other input/output devices; acoustic instruments and/or hearing aids; eyeglass frames and lenses, protective eyewear including glasses, masks, shields, and goggles; gloves, shower curtains, cable wraps, protective covers, foam containers, brush handles, sponges, insulators, gaskets, tubings, containers, films, furnitures, etc.</p>
Paint	<p>Use: interior and exterior paints</p> <p>Type: water based or solvent based paint</p>
Paper coating	<p>Use: non food packaging paper; not for paper production use.</p> <p>Type: cellulosic, synthetic, specialty, reinforced papers, etc.</p> <p>Products: wallpaper, wiping towels, book covers, corrugated paper filters, etc.</p>
Adhesive	<p>Use: non food contact adhesives for paper or containers</p> <p>Products: adhesives for plywood manufacture, adhesive for cement tile and sealants, etc.</p>
Fibers	<p>Polymers: polyester, polypropylene, nylon, polyethylene, acrylic, rayon etc.</p> <p>Products for home furnishings: mattress cover pads, sheets, blankets, quilts and pillow fiber fill, curtains and draperies, carpet and its underlay, upholstery, wiping cloths, towels, bags, wall covering fabrics, cushion pads etc.</p> <p>Products for apparel: interlinings, industrial uniforms, coats and aprons, sportswear, sleepwear, stockings, socks, helmets, caps, gloves, etc.</p> <p>Products for industrial: brush bristles, shoe linings, artificial leather, filters, book covers, sail cloth, ropes, etc.</p>
Textile Finishing	<p>Products: various surface resin coating textiles</p>
Coatings including water-borne, solvent-borne, liquid powder & 100% solids coatings for interior & exterior uses.	
<p>Use: not for food contact coatings and surfaces</p> <p>Products including (but not limited to): non-food packaging, paper products, natural and synthetic fibers and fabrics, sinks, countertops, general purpose containers, collection and storage equipment, appliances, building materials, and components equipment (including walls, hardware, floors, ceilings and components thereof for kitchen, commercial and industrial application), wallboard, flooring materials, concrete, siding, roofing, shingles, industrial equipment, metals, plastics, furniture, automotive and vehicular parts, barrier fabrics and glazing materials, spas, bathtubs, showers, and filters and components thereof</p>	
<p>Use: original equipment manufacturing of heating, ventilation and air conditioning (HVAC) equipment and related materials (including insulation, ducts, heat exchangers, drain pans, air filters, air purifiers, diffusers, and parts and components thereof)</p>	
<p>Use: coatings used to upgrade non-residential heating ventilation and air conditioning equipment and related materials (including insulation, ducts, heat exchangers, drain pans, air filters, air purifiers, diffusers, and parts and components thereof)</p>	
<p>The purpose of incorporating BACTEKILLER BM-103NA in coatings is intended for HVAC applications to inhibit the growth of mold, mildew, fungus, and bacteria that cause odor, discoloration, staining, deterioration or corrosion on the coated surface. BACTEKILLER BM-103NA does not protect the underlying substrate and is not intended to inhibit growth of public-health related organisms.</p>	

Food Contact Uses

Incorporate **BACTEKILLER BM-103NA** as an antimicrobial additive at or below the indicated maximum concentration into the polymeric manufactured products listed below that are used for manufacturing, packing, packaging, transporting, handling and/or holding food if such use is not intended to have any antimicrobial effect in the food itself. Do not incorporate **BACTEKILLER BM-103NA** into any food or drinking water contact application listed on this label without first incorporating **BACTEKILLER BM-103NA** into a polymer which is approved, with associated use conditions, for food contact in 21 CFR 174-186 (inclusive) as amended, or in the United States Food and Drug Administration's Food Contact Substance Notification System, as amended.

Plastics & Films	<p>Use: Food contact sheets, slabs and molded plastic parts Products: Appliances and equipment, beverage dispensing equipment, beverage processing equipment, bottles, brush bristles, brush handles, containers, conveyor belts, countertops, food handling equipment, food processing equipment, food storage containers, food trays and covers, food packaging, food processing utensils, gaskets, general purpose containers, kitchen and bathroom hardware liners, mats, non-woven fabrics, plastic film, plumbing suppliers and fixtures, protective covers, sinks, sponges, tape, tiles, tubing. Maximum Concentration: 2.0%</p>
Fibers	<p>Use: Food contact apparel and other goods, manufactured from fibers Products: Apparel (such as outerwear, uniforms, gloves, aprons, coats), bags, containers, conveyor belts, table cloths, napkins, wiping cloths, mops, sponges, brush bristles, filters, packaging (including bags, sacks, wraps, cushions, absorbent materials and containers), commercial and industrial wipes and fabrics for kitchen use, food packaging Maximum Concentration: 2.0%</p>
Coatings, Films & Laminates	<p>Use: Food contact coatings, films and laminates Products: Appliances and equipment, barrier fabrics, building materials and components, collection and storage equipment (such as conveyor belts, piping systems, silos, tanks and process vessels), cookware, countertops, food wrap (including coated deli paper, coated meat interleavers and plastic wrap), general purpose containers, glazing for cement tile, glazing for vitreous china used in plumbing fixtures (such as sinks and countertops), industrial equipment, natural and synthetic fibers and fabrics, packaging, paper products (such as wipes, tissues, wall coverings, towels), plastic film, sinks Maximum Concentration: 2.0%</p>
Adhesives & Sealants	<p>Use: Food contact adhesives and sealants Products: Appliances, cardboard, ceramic tile, grout and joint compound, paper, pipe sealant, and insulating materials, plastic plumbing adhesives, rubber, sealants for pipes, wood, wood and plastic composites Maximum Concentration: 2.0%</p>

Drinking Water Contact Uses

BACTEKILLER BM-103NA is permitted for the human drinking water contact uses listed below. The additive is permitted for use in food bowls and water bowls, and other containers used by domestic animals. Do not use for any food or drinking water applications involving non-domestic animals.

Use: Plastics, fibers, coatings, films, laminates, adhesives and sealants
Products: Including ice making equipment (water pans, piping, tubing, guards, ice storage bins, trays, ice scoops, buckets, valves and gaskets); drinking water contact materials (water bottles, cups, gaskets, plumbing fixtures, storage tanks and vessels, water piping, tubing valves, spigots, coolers, water dispensing components, housing units, and water filter components)
Maximum Concentration: 2.0%